

5/10/2018

Print



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	
P0039701	MES002-VC	1	1	Net 30	M4130NT0.750W.049	4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft				40	5/7/2018	40		S070006	Stock	5/10/2018	\$ 11.25 / ft	0	
		2			M4140H-R1.125	4140 Round Bar 1.125 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/- A193-03-GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft				20		22		S070007	Stock	5/10/2018	\$ 7.10 / ft	0	
Total:										60		62							

Plex 5/10/2018 8:06 AM Dart.Dubois Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039701**

**Supplier:** MES002-VC  
Metaux Solutions  
2625 boul Jacques-Cartier Est  
Longueuil  
QC  
J4N 1L7 Canada  
Phone: 800 558 8858  
Fax: 514 633 8044

**PO No:** PO039701

**PO Date:** 4/25/18

**Due Date:** 5/7/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
APR 27 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** bid 27149

*RE UISH*

## **Items**

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4130NT0.750W.049		4130 Round Tube .750 X.049W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	Firmed	5/7/18	40 ft	0 ft 39.5'	40 ft	\$11.25/ft	\$450.00
2	M4140H-R1.125		4140 Round Bar 1.125 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/-A193- 03-GRADE B7/-A29-03/- A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	5/7/18	20 ft	0 ft 22'	20 ft	\$7.10/ft	\$142.00
<b>Grand Total:</b>										<b>\$592.00</b>

DAS  
11  
9-89

DAS  
11  
9-89

## **Order Notes**

### **Procurement Quality Clauses**

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

*ck*

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7      *Tel.* : 450 641-3330

*Customer* : 6323336

DART AEROSPACE LTD  
1270, ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1K7

Shipping Order      08/05/2018

*Order* : 134770  
*Reference* : 39701  
*Bid* : 27149  
*Ship* : PICK UP / PICK UP

*Ship To*

Same

*Tel.* : 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Deliver</i>	<i>B/O Qty</i>
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
DT3404930	4130N TUBE .750 X .049 2 x 19.75' ht;606100	39.5	39.5	4
MR11841H	4140 HTSR ROU 1.125 DIA 1 x 22' ht;75065099	22	22	4
	ship journey collect jp			

*Shipping* : \_\_\_\_\_  
*Package No* : \_\_\_\_\_  
*Merchandise Received* : \_\_\_\_\_

*Ref.* :

Pat Gmel  
1 PCS  
05-0818

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Certification Date  
4-MAY-2018

44655-J  
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number  
T379178

100182

<b>SOLD TO:</b> METAUX SOLUTIONS INC.	<b>SHIP TO:</b> METAUX SOLUTIONS (RIVE-SUD)
<b>VENDU À:</b> 2625 BOUL JACQUES CARTIER EST	2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;  
750 OD X 049 W (652 ID) X 17/24' R/L Line Total: 36.9783 FT  
HEAT: 606100 ITEM: 100182

Specifications:  
AMS T 6736 B MIL T 6736 B AMS 6360 M  
ASTM A450 ASTM E112 AMS 2640 J  
ASTM E1444 AMS 2301 EN 10204 3.1/3.2 04  
FAR BAA FAR 52.225-1 DFARS 252.225-7001 FAR TAA FAR 52.225-5

## CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.31	0.5300	0.012	0.002	0.24	0.15	0.10	0.90
MO	V	TI	AL	SN			
0.20	0.002	0.002	0.035	0.011			

RCPT: R402455

COUNTRY OF ORIGIN : GERMANY

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	RC
	107400.0	118300.0	19.0		23

GRAIN SIZE :9 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
4-MAY-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

44655-J

PART NUMBER/NUMÉRO DE PIÈCE

100182

Invoice Number  
T379178

SOLD TO: METAUX SOLUTIONS INC.  
VENDU À:

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;  
.750 OD X .049 W (.652 ID) X 17/24' R/L Line Total: 36.9783 FT  
HEAT: 606100 ITEM: 100182

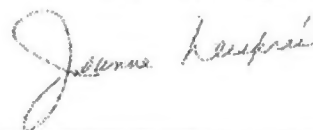
DECARB: OK  
AMS NO :2301  
SEVERITY :0.015  
FREQUENCY:0.02

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date  
4-MAY-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
S706609

44655-J  
PART NUMBER/NUMÉRO DE PIÈCE  
506426

SOLD TO: METAUX SOLUTIONS INC.  
VENDU À: 2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: A140/4142 HR HT BAR STRESS FREE 269/321 BHN  
1-1/8 RD X 20' R/L Line Total: 74.426 LB  
HEAT: 75065099 ITEM: 506426

Specifications:  
ASTM A193 GR B7 16  
ASTM MA322 13  
JDM AO QL-2

ASTM A434 GR BC 15  
ASTM A962 12

ASME SA193 GR B7  
ASTM A29 15

## CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.41	0.87	0.015	0.029	0.23	0.19	0.90	0.17
CU	SN	AL	V	CA	NB	H	
0.20	0.01	0.022	0.003	0.0008	0.001	2.80	

RCPT: R320531

COUNTRY OF ORIGIN : USA

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	139.0	153.0	21.0	56.0	280

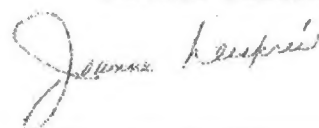
IDEAL DIAMETER : 5.1 IN GRAIN SIZE : 5 - 8

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
4-MAY-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

44655-J

PART NUMBER/NUMÉRO DE PIÈCE

506426

Invoice Number  
S706609

SOLD TO: METAUX SOLUTIONS INC.  
VENDU À:

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN  
1-1/8 RD X 20' R/L Line Total: 74.426 LB  
HEAT: 75065099 ITEM: 506426


STRAND CAST REDUCTION RATIO 68.5 TO 1  
MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
THERMAL TREATMENT: OK  
AUSTENIZE 1640 DEG F FOR .60 MIN.  
QUENCH 88 DEG F FOR .20 WATER  
TEMPER 1410 DEG F FOR 60 MIN  
MACRO: OK  
MICRO: OK

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JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140H-RI-125  
 DATE: MAY 09 2018

PO / BATCH NO.: 038701/5070007

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 22'  
 QUANTITY INSPECTED: 22'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.125  
 THICKNESS RECEIVED: 1.125  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astm A193
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 75065089
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____	
DATE: <u>9-89</u> <u>MAY 09 2018</u>	DATE: _____	

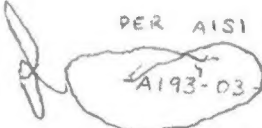
Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02/-A-434-BC /  
 A193-03 GRADE-B7 /-A29-03 /-A322-91 OR  
UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi  
MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES  
DIA.

EG.  $\frac{7}{8}$ " ROUND BAR = M4140H-R0.875

RELEASED  
05 03 75 #

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M413RN10.250W.049  
 DATE: MAY 09 2019

PO / BATCH NO.: 039701/5070006

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 39.5  
 QUANTITY INSPECTED: 39.5  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.049  
 THICKNESS RECEIVED: W.049  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>#6736</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>606100 dent#</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 09 2019</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 4130N SEAMLESS STEEL TUBING

SPECIFICATION: MIL-T-6736 OR AMS 6371, 6360, 6361, 6362, 6373, 6374

PART NUMBER: M4130N TD.DDD W. TTT WHERE: "D.DDD" = OUTER DIAMETER (IN INCHES)  
AND "TTT" = WALL THICKNESS (IN INCHES)

DIA. WALL

EG. 3/4" TUBING WITH .035" WALL = M4130NT0.750W.035

RELEASE  
2012-04-16

B	REFORMAT DWG TO ACCOMMODATE ADDITIONAL TUBE DIAMETERS AND WALL THICKNESS		RP	12.04.02
A	NEW ISSUE		JB	01.05.16
REV	DESCRIPTION			
DESIGN	JB	DART AEROSPACE LTD		
DRAWN	RP	HAWKESBURY, ONTARIO, CANADA		
CHECKED	AP	DRAWING NO.	REV. B	
MFG. APPR.		M4130N-T	SHEET 1 OF 1	
APPROVED		TITLE	SCALE	
DE APPR.		STEEL TUBING	NTS	
DATE	12.04.02	COPYRIGHT © 2001 BY DART AEROSPACE LTD		
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS NOT TO BE USED FOR ANY PURPOSE OR REPRODUCED IN ANY FORM WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.				